

LISTING OF CLAIMS

1-38. (Cancelled)

39. (Currently amended) An isolated oligonucleotide probe ~~comprising a~~ consisting of a sequence of at least 12 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1, wherein the oligonucleotide probe comprises a ΔC mutation at nucleotide 303.

40. (Currently amended) An isolated oligonucleotide primer ~~comprising a~~ consisting of a sequence of at least 12 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1, wherein the oligonucleotide primer comprises a ΔC mutation at nucleotide 303.

41-117. (Cancelled)

118. (Cancelled)

119. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 14 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

120. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 16 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

121. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 18 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

122. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 20 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

123. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 22 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

124. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 24 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

125. (Currently amended) The oligonucleotide probe of claim 39 or primer of claim 40 which ~~comprises~~ consists of a sequence of at least 26 contiguous nucleotides of ~~a human mitochondrial genome~~ SEQ ID NO:1.

126. (Cancelled)